

Confusion matrix for the whole theropod dataset at the clade level. Rows are the given groups and columns are the predicted groups.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	R	T	U	Σ
A	15	0	0	0	0	0	0	0	0	0	2	0	12	0	0	0	1	0	0	0	0	30
B	0	17	0	0	1	1	0	0	0	1	1	0	0	6	3	0	0	3	0	0	0	33
C	0	0	20	0	3	1	4	0	5	3	1	0	0	1	4	0	0	0	1	0	0	43
D	3	0	0	10	0	0	0	0	0	0	1	0	1	5	0	0	2	0	2	0	0	24
E	0	0	3	0	63	1	3	0	7	10	4	1	0	0	3	0	0	0	0	0	0	95
F	0	0	2	0	0	12	0	0	1	0	11	0	0	0	0	0	0	0	0	0	0	26
G	0	0	8	0	3	7	21	0	7	2	3	1	0	0	1	0	0	0	0	0	0	53
H	0	0	0	0	0	1	0	43	1	6	1	6	0	0	0	0	0	0	0	0	0	58
I	0	0	0	0	0	1	0	0	11	3	0	0	0	0	0	0	0	0	0	0	0	15
J	0	0	2	0	5	0	1	0	11	35	3	1	0	1	1	0	0	0	0	0	0	60
K	0	1	0	0	1	4	1	0	0	2	29	0	0	0	0	0	2	0	2	0	0	42
L	0	0	3	0	0	0	2	0	10	2	1	58	0	0	17	0	0	0	0	0	0	93
M	2	0	0	1	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1	0	0	12
N	0	0	0	5	0	5	0	2	0	0	12	0	8	13	0	0	0	0	0	0	1	46
O	0	0	6	0	2	19	0	1	5	13	4	33	0	0	132	0	0	0	0	0	0	215
P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	48
Q	0	0	0	1	2	0	0	0	0	0	0	0	1	0	0	0	8	0	0	0	0	12
R	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	5
S	19	1	0	19	0	12	0	0	0	0	18	0	6	19	0	13	13	0	210	6	5	341
T	2	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	4	47	26	84
U	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	26	29
Σ	41	19	44	36	82	64	32	46	58	77	91	100	44	45	161	61	26	6	220	53	58	1364

A, basalmost Theropoda; B, non-averostran Neotheropoda; C, non-abelisauroid Ceratosauria; D, Noasauridae; E, Abelisauridae; F, non-megalosauran Megalosauroidea; G, Megalosauridae; H, Spinosauridae; I, Metriacanthosauridae; J, Allosauridae; K, Neovenatoridae; L, Carcharodontosauridae; M, basal Coelurosauria, N, non-tyrannosaurid Tyrannosauroidea; O, Tyrannosauridae; P, Compsognathidae; Q, Therizinosauria; R, Oviraptorosauria; S, Dromaeosauridae; T, Troodontidae; U, Aves; Σ, total.

Confusion matrix for the CH < 20 mm dataset at the taxon level. Rows are the given groups and columns are the predicted groups.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	R	T	U	V	W	X	Y	Z	Aa	Ba	Ca	Da	Ea	Fa	Ga	Ha	Ia	Ja	Ka	La	Ma	Na	Oa	Σ			
A	16	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	27
B	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
C	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
D	0	0	0	18	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
E	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
F	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
G	0	0	1	0	3	0	5	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	2	2	0	0	1	2	1	0	0	0	0	0	0	0	0	0	22	
H	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
I	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
J	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
K	1	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
L	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
M	0	0	0	0	0	0	0	0	0	4	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	13	
N	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
O	0	0	0	0	0	0	0	2	0	0	0	3	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	33	
Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7		
R	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5		
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
U	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	
X	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Z	3	0	4	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
Aa	0	0	0	0	10	0	0	10	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4		
Ba	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	21		
Ca	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	8	0	0	5	0	0	0	0	0	0	0	0	0	0	23			
Da	0	0	2	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38	0	0	4	0	0	0	0	0	0	0	0	0	0	1	46		
Ea	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	1	1	15		
Fa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	9		
Ga	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	3	6	0	0	83	6	16	0	0	0	0	0	0	6	134			
Ha	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	13	4	3	0	1	0	0	0	22				
Ia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	24			
Ja	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	20	8	3	0	0	1	36			

